| 4.       | Index of Claims |          |   |          |          |    |          |           |           |            |          |                |              | A   | Application/Control No. |                     |          |             |               |           |              |          |         | F        | Applicant(s)/Patent under Reexamination |            |   |          |          |          |                 |          |                 |                 |           |   |
|----------|-----------------|----------|---|----------|----------|----|----------|-----------|-----------|------------|----------|----------------|--------------|-----|-------------------------|---------------------|----------|-------------|---------------|-----------|--------------|----------|---------|----------|---|------------|---|----------|----------|----------|-----------------|----------|-----------------|-----------------|-----------|---|
| •        |                 |          |   |          |          |    |          |           |           |            |          | Ш              |              |     |                         |                     |          |             | 0/00          |           |              | 5        |         |          |   |            |   |          |          |          | AL.             |          |                 |                 |           |   |
|          |                 |          |   |          |          |    |          |           |           |            |          | Ш              |              |     |                         |                     |          | E           | kan           | iln       | <b>0</b> 7   |          |         |          |   |            |   | ^        | \rt      | Un       | it              |          |                 |                 |           | • |
|          |                 |          |   |          |          |    |          |           |           |            |          | Richard H. Kim |              |     |                         |                     |          |             |               |           | 2871         |          |         |          |   |            |   |          |          |          |                 |          |                 |                 |           |   |
|          |                 |          |   |          |          |    | 7        |           | ſ         |            | -        | /=             |              |     |                         |                     |          | -11         |               | ſ         | _            |          |         |          |   | <br>]      |   |          |          |          |                 |          | 7               |                 |           |   |
|          |                 | _        | R | eje      | ect      | be | <u>'</u> |           |           | -          | L        | (1             | nro<br>(     | aı  | th n                    | lled                | l        | #1)         | ╛             | 1         | N            | ·No      | on-l    | Elec     | ted                                     | 1          | A |          |          | /bi      | pea             | 1        |                 |                 |           |   |
|          |                 | = All    |   | Mowed    |          |    |          | +         |           | Restricted |          |                | <u> </u>     |     |                         |                     | ı        | Interferenc |               |           | nce          |          | 0       |          | Objected                                |            |   |          |          |          |                 |          |                 |                 |           |   |
| CI       | aim             |          | _ |          |          | Da | ate      |           |           | _          |          | ]              |              | lai | m                       |                     |          |             | D             | ate       |              |          |         |          |   | laim       | L | _        |          |          | Date            | 9        |                 |                 |           |   |
|          | iai             | 98       |   |          | Γ        | Γ  | T        |           |           |            |          |                | _            |     | <u>a</u>                |                     |          |             |               |           |              |          | 1       |          | _                                       | <u> </u>   |   |          |          |          |                 |          |                 |                 |           |   |
| Final    | Original        | 2/27/C   |   |          |          |    |          |           |           |            |          |                | Final        |     | Original                |                     |          |             |               |           | ١            |          |         |          | Final                                   | Original   |   |          |          |          |                 |          |                 |                 | 1         |   |
| $\vdash$ | 0               |          | _ | ┝        | ╁        | +  | +        | $\dagger$ |           |            |          |                |              |     | 51                      |                     |          |             | _             | $\pm$     | 1            | $\pm$    | $\pm$   |          |   | 101        |   |          |          |          |                 |          |                 |                 | ╛         |   |
|          | 2               | 7        |   |          |          | I  | Į        | 1         | $\Box$    |            |          |                |              |     | 52                      |                     |          | $\Box$      | $\Box$        | 1         | $\dashv$     | $\dashv$ | Ţ       | ]        |   | 102        |   |          | П        |          |                 |          | Ц               |                 | 4         |   |
| -        | 4               | 7        | ┡ | ┞        | ╀        | ╀  | ╀        | +         | ┩         | _          | $\vdash$ |                | ⊢            |     | 53<br>54                | $\vdash$            | $\dashv$ | $\dashv$    | $\dashv$      | +         | $\dashv$     | +        | ╫       | $\dashv$ | -                                       | 103        |   | ⊢        | Н        | _        | Н               | Н        | Н               | $\dashv$        | -         |   |
| $\vdash$ | 5               | 7        | - | ┪        | 1        | 十  | +        | +         | 7         |            | Н        |                | 一            |     | 55                      | Н                   |          | $\neg$      | $\exists$     | 7         | 1            | 1        | 十       |          |   | 105        |   |          |          |          |                 |          |                 |                 | ╛         |   |
|          | 6               | 7        |   |          | Ι        | I  | I        | 1         |           |            |          |                |              |     | 56                      |                     |          | $\Box$      | $\Box$        | $\Box$    | $\Box$       | $\Box$   | $\Box$  | ]        |   | 106        |   | Г        |          |          |                 |          | П               |                 | $\exists$ |   |
| <b>-</b> | 7               | 7        | ┡ | L        | ╀        | ╀  | +        | +         | 4         | _          | -        | ı              | ⊢            |     | 57<br>58                | $\vdash$            | $\dashv$ |             | -             | +         | 4            | +        | +       | -        | <u> </u>                                | 107        |   | ⊢        | $\vdash$ | -        | Н               | Н        | $\vdash$        | $\vdash$        | $\dashv$  |   |
| <u> </u> | (9)             |          | - | ┝        | ╁        | ╁  | +        | +         | $\dashv$  | $\vdash$   | $\vdash$ |                | ┢            |     | <del>58</del>           | Н                   |          | $\dashv$    | +             | +         | +            | +        | 十       | -        | $\vdash$                                | 109        | _ | $\vdash$ | Н        | $\vdash$ | Н               | Н        | Н               |                 | $\dashv$  |   |
| -        | 10              |          | ┪ | ✝        | ╁        | 十  | 1        | 1         | ╛         |            |          | 1              |              |     | 60                      |                     |          |             | ユ             | I         |              | ⇉        |         |          |   | 110        |   |          |          | Ш        |                 |          |                 |                 | ╛         |   |
|          |                 | Z        |   |          | L        | I  | $\perp$  | 1         |           |            |          |                |              |     | 61                      | Ц                   |          |             | $\perp$       | $\perp$   | 4            | _        | 1       | _        | _                                       | 111        |   | _        | Ш        |          | Ш               |          | Щ               |                 | 4         |   |
| -        |                 | 2 2      |   | ┞        | ╀        | ╀  | +        | +         |           | _          | -        |                | ⊢            |     | 62<br>63                | $\vdash$            |          | $\dashv$    | $\dashv$      | +         | +            | +        | +       | -        | <u> </u>                                | 112        |   | ⊢        | Н        | H        | Н               | Н        | ┝╼┥             | $\dashv$        | $\dashv$  |   |
| $\vdash$ | 13              | 2 2      | ⊢ | ┝        | ╁        | 十  | 十        | +         | $\dashv$  | _          | ⊢        |                | ┝            | _   | 64                      | Н                   | $\dashv$ | -1          | $\dashv$      | +         | $\dashv$     | +        | ╅       | -        | $\vdash$                                | 114        |   | $\vdash$ | Н        | ┝        | Н               |          | H               | H               | ┨         |   |
|          | 15              | -        | Н | $\vdash$ | $\vdash$ | T  | $\top$   | T         | ╗         |            |          |                |              |     | 65                      |                     |          |             | $\exists$     | $\pm$     | 1            | 士        | 1       |          |   | 115        |   |          |          |          |                 |          |                 |                 | コ         |   |
|          | 186             |          |   |          | I        | I  | T        |           |           |            |          |                |              |     | 66                      |                     |          |             | _             | $\bot$    | $\Box$       | _        | $\perp$ | _        |   | 116        |   |          | Ц        | Ш        |                 |          | Ц               | $\Box$          | _         | • |
| $\vdash$ | 17              | 2 2      | - | ┝        | ╀        | ╀  | +        | +         | -         | _          | ⊢        |                | <u> </u>     |     | 67<br>68                | $\vdash$            | $\dashv$ | $\dashv$    | +             | +         | +            | -        |         | -        | $\vdash$                                | 117        |   | -        | Н        | -        | Н               | Н        | Н               | Н               | $\dashv$  |   |
| -        | 18              | 2 2      | _ | ┝        | ╁        | ╁  | +        | +         | ┪         | $\vdash$   | -        |                | ┢            |     | 69                      | Н                   | $\dashv$ | $\dashv$    | $\dashv$      | ╅         | +            | $\dashv$ | +       | -        | -                                       | 119        |   | Н        | Н        | _        | Н               |          | H               | $\dashv$        | ⊣         |   |
|          | 20              | N        |   |          | L        | İ  | 1        | İ         |           |            |          |                |              | I   | 70                      |                     |          |             | 工             | I         | I            | ╛        | 1       |          |   | 120        |   |          |          |          |                 |          |                 |                 | ⊐         |   |
|          | 21              | ×        |   | L        | L        | L  | 1        | 4         | _         |            | L        |                |              |     | 71                      | Ш                   |          | $\Box$      | 4             | 4         | 4            | 4        | _       | 4        | L                                       | 121        |   | L        | Ш        |          | Н               | Щ        | Ш               | $\sqcup$        | 4         |   |
| $\vdash$ | 23              | 2 2      | ļ | ├        | ╀╌       | ╀  | +        | +         | -         | -          | H        |                | ⊢            |     | 72<br>73                | $\vdash$            | $\dashv$ | $\dashv$    | $\dashv$      | +         | +            | +        | +       | -        | $\vdash$                                | 122<br>123 |   | ┝        | H        | _        | Н               | $\vdash$ | $\vdash \vdash$ | -               | $\dashv$  |   |
|          |                 | 2 2      | ┝ | ╁        | ╁        | +  | 十        | 十         | ᅱ         |            | H        |                | H            |     | <del>/3</del><br>74     | Н                   | ٦        |             | $\dashv$      | $\forall$ | 7            | ┪        | 十       | 1        | $\vdash$                                | 124        |   | Н        | Н        |          | Н               |          | H               | $\vdash$        | ┥         |   |
|          | 25<br>26        | ×        |   |          |          | İ  |          | I         | ᅵ         |            |          |                |              | T   | 75                      |                     |          |             | 士             | 1         |              | 士        | 土       |          |   | 125        |   |          |          |          |                 |          |                 |                 | ⊐         |   |
|          | 26              |          |   |          | L        | Į  | _        | 1         |           |            | L        |                |              |     | 76                      | Щ                   |          | $\dashv$    | 4             | 4         | _            | 4        | 4-      | _        | <u> </u>                                | 126        |   |          |          |          | Н               |          | Н               | Ш               | 4         |   |
| $\vdash$ | 27)<br>28       | -        | ┝ | ├        | ┝        | ╀  | ╫        | +         | -         |            | ┝        |                | ├            |     | 77<br>78                | $\vdash$            |          |             | $\dashv$      | +         | +            | +        | ┿       | -        | $\vdash$                                | 127        |   | ┝        | Н        | $\vdash$ | Н               | Н        | Н               | Н               | $\dashv$  |   |
| <u> </u> | 29              | Н        | ┢ | ┢        | 十        | †  | +-       | +         | ᅱ         |            | ┢        |                |              | -   | <del>79</del>           | Н                   | -        | $\dashv$    | -+            | +         | +            | +        | ╅       | $\dashv$ | $\vdash$                                | 129        | _ | Н        | Н        | H        | Н               |          | Н               | H               | ┪         |   |
|          | 30              |          |   |          |          | T  | I        | İ         |           |            |          |                |              | Ι   | 80                      |                     |          |             |               | $\perp$   | _            |          | 土       |          |   | 130        |   |          |          |          |                 |          |                 |                 | $\Box$    |   |
| <u> </u> | 31              | Щ        | Ľ | Ĺ        | L        | +  | 1        | 4         | _]        | ш          | L        |                | oxdot        |     | 81                      | $\vdash \downarrow$ | _        | _           | -             | 4         | 4            | 4        | 4       | 4        | <u> </u>                                | 131        |   | Ŀ        | $\vdash$ | <u> </u> | Н               | Щ        | Н               | Н               | 4         |   |
| <u> </u> | 32<br>33        | Н        | ⊢ | $\vdash$ | +        | +  | +        | +         | $\dashv$  | H          | $\vdash$ |                | <del> </del> |     | 82<br>83                | H                   | -        | -           | $\dashv$      | +         | +            | +        | +       | -        | $\vdash$                                | 132        |   | $\vdash$ | Н        | ┝        | Н               | Н        | Н               | $\vdash$        | $\dashv$  |   |
|          | 34              |          | Н | Н        | T        | t  | +        | 1         | $\exists$ |            | 1        |                | ┢            |     | 84                      | Н                   | _        | 一           | 十             | 十         | 7            | 7        | 十       | ٦.       | $\vdash$                                | 134        |   | Г        | П        |          |                 |          |                 |                 |           |   |
|          | 35              |          |   |          |          | I  | $\perp$  | I         |           |            |          |                |              |     | 85                      |                     |          |             | $\Box$        | I         | $\Box$       | $\Box$   | $\Box$  |          |   | 135        |   |          |          |          |                 |          |                 |                 | $\Box$    |   |
| <u> </u> | 36              | Н        | L | -        | 1        | +  | +        | +         | 4         |            | $\vdash$ |                | <u> </u>     |     | 86_                     | $\vdash \vdash$     | _        | _           | $\dashv$      | 4         | 4            | 4        | +       | -        | <b> </b>                                | 136        |   | $\vdash$ | Н        | Н        | Н               | Н        | $\vdash\dashv$  | $\vdash \vdash$ | $\dashv$  |   |
| -        | 37<br>38        | Н        | ⊢ | ⊢        | ╀        | ╁  | ╫        | +         | -         |            | $\vdash$ | H              | <del> </del> | _   | 87<br>88                | Н                   | -        |             | $\dashv$      | +         | +            | ╅        | +       | -        | $\vdash$                                | 137        |   | $\vdash$ | Н        | Н        | Н               |          | $\vdash$        | $\vdash$        | $\dashv$  |   |
|          | 39              | Н        | H |          | $\vdash$ | T  | †        | 1         | _         |            |          | 1              |              |     | 89                      | ᆸ                   | _        | _           |               | 7         | _            | _        | 士       | וון      |   | 139        |   |          |          |          |                 |          |                 |                 | d         |   |
|          | 40              |          |   |          |          |    | T        | 1         |           |            |          |                |              | I   | 90                      |                     |          |             |               | 1         | $\Box$       |          |         |          |   | 140        |   |          |          |          |                 |          |                 |                 | $\Box$    |   |
|          | 41              | Щ        |   | L        | F        | 1  | 1        | 4         | 4         |            | L        |                | <u> </u>     |     | 91                      | oxdot               | _        | 4           | $-\Gamma$     | 4         |              | 4        | 4       | -        | -                                       | 141        |   | $\vdash$ | $\vdash$ | Н        | $\vdash \vdash$ | Н        | $\vdash \vdash$ | Н               | 4         |   |
| -        | 42              | Н        | - | ⊢        | ╀        | ╁  | ╀        | +         | $\dashv$  | -          | $\vdash$ |                | $\vdash$     |     | 92<br>93                | $\vdash \vdash$     | $\dashv$ | $\dashv$    | $\dashv$      | +         | +            | $\dashv$ | +       | -        | -                                       | 142        |   | $\vdash$ | $\vdash$ | Н        | H               | Н        | $\vdash \vdash$ |                 | $\dashv$  |   |
| $\vdash$ | 44              | Н        | - | $\vdash$ | -        | ╁  | +        | +         | $\dashv$  |            | $\vdash$ |                | $\vdash$     |     | 93<br>94                | $\vdash \vdash$     | ┥        | $\dashv$    | $\dashv$      | +         | +            | +        | +       | -        | $\vdash$                                | 144        |   | ┢        | Н        |          | H               | Н        | H               | $\square$       | $\dashv$  |   |
|          | 45              |          |   |          |          | I  | 1        | 1         |           |            |          |                |              | Ι   | 95                      |                     | ╛        |             |               |           | 丁            | 丁        | I       |          |   | 145        |   |          |          |          |                 |          |                 |                 |           |   |
|          | 46              |          |   |          |          | L  | I        | Ţ         | I         |            |          |                |              |     | 96                      | П                   | $\Box$   | $\Box$      | Ţ             | Ţ         | $\downarrow$ | $\bot$   | Ŧ       | _        |   | 146        |   | $\vdash$ | П        |          | Ц               | П        | П               | $\Box$          | 4         |   |
| -        | 47<br>48        | Н        | H | $\vdash$ | ╀        | ╀  | +        | +         | -         |            | H        |                | <u> </u>     | _   | 97<br>98                | $\vdash \vdash$     |          | -           | +             | +         | +            | +        | +       | -        | -                                       | 147        |   | ┝        | Н        | _        | H               | Н        | Н               | H               | $\dashv$  |   |
| -        | 49              | Н        | Н | $\vdash$ | +-       | ╁  | +        | ╁         | +         | -          | $\vdash$ |                | -            |     | 90<br>99                | Н                   | -        | +           | +             | +         | +            | +        | ╅       | -        | -                                       | 149        |   | $\vdash$ | Н        | Н        | Н               | $\vdash$ | $\vdash \vdash$ | $\vdash$        | $\dashv$  |   |
|          | 50              | $\vdash$ | - | -        | +-       | 1- | +        | +         | -1        | _          | _        | ı              | _            |     | 00                      | Н                   | -1       | -1          | $\rightarrow$ | +         | $\dashv$     | ╅        | +       | וווון    |   | 150        |   | Т        |          | $\vdash$ | 1               | $\dashv$ | Н               | -               | $\dashv$  |   |